

POLYARYLENE COPOLYMER AND PROTON-CONDUCTIVE FILM

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Abstract of JP2001329053

PROBLEM TO BE SOLVED: To provide a polyarylene copolymer capable of giving a sulfonated polymer capable of forming a film exhibiting a high proton-conductivity over a wide temperature range, and having excellent mechanical strengths, suppressed swellability in hot water and excellent durability by controlling an amount of a sulfonic acid introduced not to deteriorate the mechanical properties.

SOLUTION: Provided are a polyarylene copolymer comprising 40-3 mol% (A) units of an aromatic compound having electron-attracting groups and etheric bonds in the main chain and 60-97 mol% [(A)+(B)=100 mol%] (B) units of an aromatic compound having no electron-attracting groups in the main chain and a protonically conductive film comprising a sulfonated polymer prepared by sulfonating the copolymer.

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